CLAIMS

What is claimed is:

	1	1.	An apparatus, comprising:
	2		a transaction facilitator;
	3		a split-completion transaction arbiter coupled to the transaction facilitator;
	4		and
	5		a split-completion buffer coupled to the transaction facilitator.
	1_	2	The apparatus of claim 1, further comprising:
	2		a split-completion commitment limit register;
Ū	3		a total outstanding split-completion register; and
	4		a next split-completion size register.
	1 2	3.	The apparatus of claim 1, further comprising more than one bus coupled to said transaction facilitator.
	1	4.	The apparatus of claim 1, wherein said transaction facilitator comprises an
	2		initiator and a completer.
	1	5.	The apparatus of claim 1, wherein said split-completion arbiter comprises a
	2		fairness determiner.
	1	6.	The apparatus of claim 5, wherein the fairness determiner comprises a round robin
	2		determiner.
	1	7.	The apparatus of claim 5, wherein the fairness determiner comprises a fixed-
	2		priority determiner.
	1	8.	The apparatus of claim 1, wherein said split-completion transaction arbiter
	2		comprises a latency counter coupled to said transaction facilitator.
	1	9.	The apparatus of claim 1, wherein said split-completion buffer comprises:
	2		a first-bus buffer coupled to a first split-completion transaction arbiter; and

a second-bus buffer coupled to a second split-completion transaction arbiter.

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	1	10.	A method, comprising:
	2		receiving a transaction;
	3		storing a split-completion for the transaction;
	4		arbitrating the split-completion; and
	5		initiating a split-completion transaction in response to said arbitrating the
	6		split-completion.
	1	11.	The method of claim 10 further comprising responding to the transaction with a
	2		split response.
· -	1-	12.	The method of claim 10 wherein said receiving a transaction comprises receiving
	2		part of an initiated sequence of transactions.
	1	13.	The method of claim 10 wherein said storing a split-completion for the transaction
n N	2		comprises storing a sequence identification and a command identification.
	1	14.	The method of claim 13 wherein said storing a split-completion for the transaction
	2		further comprises storing data corresponding to the command identification.
	1	15.	The method of claim 10 wherein said arbitrating the split-completion comprises
 	2		determining a ranking of a split-completion transaction for the split-completion.
	1	16.	The method of claim 10 wherein said arbitrating the split-completion comprises
	2		limiting the duration of a split-completion transaction for the split-completion.
	1	17.	The method of claim 10 wherein said initiating a split-completion transaction
	2		comprises transmitting a completion message.
	1	18.	The method of claim 10 wherein said initiating a split-completion transaction
	2		comprises forwarding a split-completion.

1	19.	A system, comprising:
2		a requester;
3		an arbiter bridge coupled to said requester;
4		a microprocessor coupled to said arbiter bridge; and
5		a target device coupled to said arbiter bridge.
1 2	20.	The system of claim 19, further comprising a bus arbiter coupled to said arbiter bridge.
1. 3 2 5	21.	The system of claim 19, wherein said requester comprises a second microprocessor coupled to said arbiter bridge.
	22.	The system of claim 19, wherein said requester comprises: a sequence initiator coupled to said arbiter bridge; and a sequence requester coupled to said arbiter bridge.
1 2 2 3 4 5	23.	The system of claim 19, wherein said arbiter bridge comprises: a transaction facilitator; a split-completion transaction arbiter coupled to the transaction facilitator; and a split-completion buffer coupled to the transaction facilitator.
1 2	24.	The system of claim 19, wherein said target device comprises a memory device coupled to said arbiter bridge.

	1	25.	A machine-readable medium containing instructions, which when executed by a
	2		machine, cause said machine to perform operations, comprising:
	3		receiving a transaction;
	4		storing a split-completion for the transaction;
	5		arbitrating the split-completion; and
	6		initiating a split-completion transaction in response to said arbitrating the
	7		split-completion.
	1	26.	The machine-readable medium of claim 25 wherein said receiving a transaction
	2		comprises receiving part of an initiated sequence of transactions.
	1	27.	The machine-readable medium of claim 25 wherein said storing a split-completion
ű	2		for the transaction comprises storing a sequence identification and a command
	3		identification.
	1	28.	The machine-readable medium of claim 25 wherein said arbitrating the split-
ē:	2		completion comprises determining a ranking of a split-completion transaction for
	3		the split-completion.
	1	29.	The machine-readable medium of claim 25 wherein said initiating a split-
H	2		completion transaction comprises transmitting a completion message.